Group 1 Elements

|  |  |  |
| --- | --- | --- |
| Characteristic | Group Trend | Reason |
| Atomic Radius |  |  |
| Ionic Radius |  |  |
| Electronegativity |  |  |
| Ionization Energy |  |  |
| Melting Point |  |  |

Group 7 Elements

|  |  |  |
| --- | --- | --- |
| Characteristic | Group Trend | Reason |
| Atomic Radius |  |  |
| Ionic Radius |  |  |
| Electronegativity |  |  |
| Ionization Energy |  |  |
| Melting Point |  |  |

Reactions of group 1 and 7

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Group Element | Reagent | Example Equation | Conditions/ results (if any) | Relative Reactivity in group (increase or decrease) |
| Group 1 (Li – K) | Water |  |  |  |
| Group 1 (Li – K) | Halogen |  |  |  |
|  |  |  |  |  |

Displacement Reactions of halogens (write balanced equation)

|  |  |  |  |
| --- | --- | --- | --- |
|  | Chloride ion | Bromide ion | Iodide ion |
| Chlorine gas |  |  |  |
| Bromine |  |  |  |
| Iodine |  |  |  |

Period 3 Oxides

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | Na2O | MgO | Al2O3 | SiO2 | P4O10 | SO3 | CL2O7 |
| Adding Water  (write balanced equation) |  |  | Xxxxxx  xxxxxx | Xxxxxx  xxxxx |  |  | Xxxxxx  xxxxxx |
| Acid/ Base/ Amphoteric |  |  |  |  |  |  |  |
| Ionic/ covalent bond type |  |  |  |  |  |  |  |